IN THE CLAIMS

Please amend the claims as follows:

1-14 (Canceled)

15. (New) Process for estimating a propagation channel formed by successive symbols of a multi-carrier signal each comprising at least one reference pilot and a plurality of frequencies carrying data, the process comprising:

      extracting the said at least one reference pilot present in each of the said symbols;

      obtaining a first estimate of the said propagation channel, by analysis of the said extracted reference pilot;

      independent correcting the said reference pilot, in phase and amplitude, and as a function of the said first estimate, to output pilots with phase and amplitude correction;

      obtaining a second estimate of the said propagation channel, by analysis of the said corrected output pilot.

16. (New) Process for estimating a propagation channel according to claim 15, wherein the said correction step includes a step to calculate an amplitude and phase error vector for each of the said reference pilots.

17. (New) Process for estimating a propagation channel according to claim 16, wherein the said error vector calculation step includes averaging of a set of error vectors obtained on at least one symbol.

18. (New) Process for estimating a propagation channel according to claim 17, wherein the said averaging is calculated on each symbol.

19. (New) Process for estimating a propagation channel according

to claim 17, wherein the said set of error vectors only includes error vectors that satisfy at least one predetermined quality criterion.

20. (New) Process for estimating a propagation channel according claim 16, wherein the said calculation step for an amplitude and phase error vector comprises a preliminary step in which the said pilots with an amplitude less than a first predetermined minimum average threshold and/or greater than a second predetermined maximum average threshold are rejected.

21. (New) Process for estimating a propagation channel according to claim 15, wherein the said second estimate includes an equalisation step that depends on the first estimate.

22. (New) Process for estimating a propagation channel according to claim 21, wherein the said equalisation step is performed on all carrier frequencies of each of the said symbols.

23. (New) Process for estimating a propagation channel according to claim 21, wherein the process comprises a step after the said equalisation step to calculate a pulse response of the propagation channel as a function of the at least one reference pilot equalized by the equalization step, for refining synchronisation of receivers in time.

24. (New) Process for estimating a propagation channel according to claim 15, wherein the said the reference pilot correction step includes a division of these pilots by the first estimate.

25. (New) Process for estimating a propagation channel according to claim 17, wherein the said correction step of the at least one reference pilots also includes a final step to correct all equalised useful carriers taking account of an average value obtained as a result of the said averaging.

26. (New) Process for estimating a propagation channel according to claim 15, and further comprising using the process for correction of at least one phase and/or amplitude error common to two cells in a same OFDM (Orthogonal Frequency Division Multiplex) type symbol.

27. (New) A device for estimating a propagation channel formed of successive symbols of a multi-carrier signal each comprising at least one reference pilot, and a plurality of data carrier frequencies, the device comprising:

    means for extracting the said at least one reference pilot present in each of the said symbols;

    means for making a first estimate of the said propagation channel, by analysis of the said extracted at least one reference pilot;

    means of independently correcting the said at least one reference pilot, in phase and amplitude, as a function of the said first estimate, to output one or more pilots with phase and amplitude correction; and

    means of making a second estimate of the said propagation channel, by analysis of the said one or more pilots with phase and amplitude correction.

28. (New) A device for estimating a propagation channel formed of successive symbols of a multi-carrier signal each comprising at least one reference pilot, and a plurality of data carrier frequencies, the device comprising:

    an extraction element, which extracts the at least one reference pilot present in each of the said symbols;

    a first estimation element, which makes a first estimate of the propagation channel, by analysis of the extracted at least one reference pilot;

    a correction element, which independently corrects the at least one reference pilot, in phase and amplitude, as a function of the first estimate, to output one or more pilots with phase and amplitude correction; and

a second estimation element, which makes a second estimate
of the said propagation channel, by analysis of the one
or more pilots with phase and amplitude correction.